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[redacted]
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Copy 11 of 12

14 JAN 1974

MEMORANDUM FOR: Director, CIA Reconnaissance Programs
SUBJECT: Program Progress Report

Forwarded herewith are three copies of the IDEALIST
Program Progress Report for the period 1 October 1973 -
31 December 1973.

[redacted]
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WENDELL L. BEVAN, JR.
Brigadier General, USAF
Director of Special Activities

Attachments -
As stated [redacted]

[redacted]
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[redacted]
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SAS/O/OSA: [REDACTED] (10 January 1974)

Distribution:

- 1 - D/CRP
- 2 - D/CRP
- 3 - D/CRP
- 4 - DDS&T Reg
- 5 - D/SA
- 6 - SAS/O/OSA
- 7 - D/O/OSA
- 8 - IDEA/O/OSA
- 9 - INTEL/O/OSA
- 10 - D/M/OSA
- 11 - AMS/OSA
- 12 - RB/OSA

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Section 1

IDEALIST

OPERATIONAL SUMMARY AND STATUS

(1 October 1973 - 31 December 1973)

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25X1 I. OPERATIONAL MISSION SUMMARY 25X1

Nine IDEALIST TACKLE missions were alerted during this period. [redacted]

[redacted] one was cancelled by Project Headquarters due to adverse weather. Missions were planned to be flown no closer than 25 nautical miles to the China mainland coast. Due to Detachment "G" response to the Middle East crisis (FORWARD PASS), the "H" camera configuration [redacted] not available for Detachment "H" operations during the major portion of this reporting period (mid-October through mid-December). The following summary is provided for each of the TACKLE missions flown: 25X1

1. Mission C333C was flown in the Taiwan Strait area on [redacted] 25X1

[redacted] The mission employed the "H" camera system. All aircraft systems operated normally [redacted] 25X1

[redacted] programmed targets and eight bonus targets were covered during this mission. 25X1

2. Mission C353C was flown on [redacted] over the south central China Sea. The mission employed the "B" camera system. No unusual activities or sightings were reported during this mission. However, a navigational error occurred which caused the platform to deviate from course [redacted] 25X1

[redacted] programmed targets and 17 bonus targets were covered during the mission. As a result of the navigational error, the pilot was removed from operational status for additional training. 25X1

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3. Mission C383C was flown along the central/north central China coast on [REDACTED] Although photo intelligence gathering utilizing the "B" camera system was the primary mission, [REDACTED] 25X1

[REDACTED] All systems operated normally and the route was flown as briefed. [REDACTED] 25X1

[REDACTED] programmed targets and 47 bonus targets were covered during the mission. 25X1

4. On [REDACTED] Mission C393C was flown along the central China coast. The mission was flown to collect photo intelligence utilizing the "H" camera configuration. The route was flown as planned, all systems operated normally, and no unusual activity was observed. [REDACTED] programmed targets and 26 bonus targets were covered during this mission. 25X1

5. Mission C413C was launched against targets along the north central coast of China on [REDACTED] The "H" camera system was employed. All systems operated normally during the mission; the route was flown as briefed and no unusual activity was observed. [REDACTED] programmed targets and 25X1

17 bonus targets were covered during this mission. 25X1

II. [REDACTED] GENERAL

A. (TS) FORWARD PASS - Detachment "G" deployed two aircraft to [REDACTED] as a staging point for potential Middle East coverage. Article 055 was deployed 7 October 1973, and returned 13 November 1973. Article 054 was deployed 8 October 1973, and returned 17 October 1973. Both aircraft remained in an alert status while deployed; however, they were not tasked to obtain photo coverage of the crisis area.

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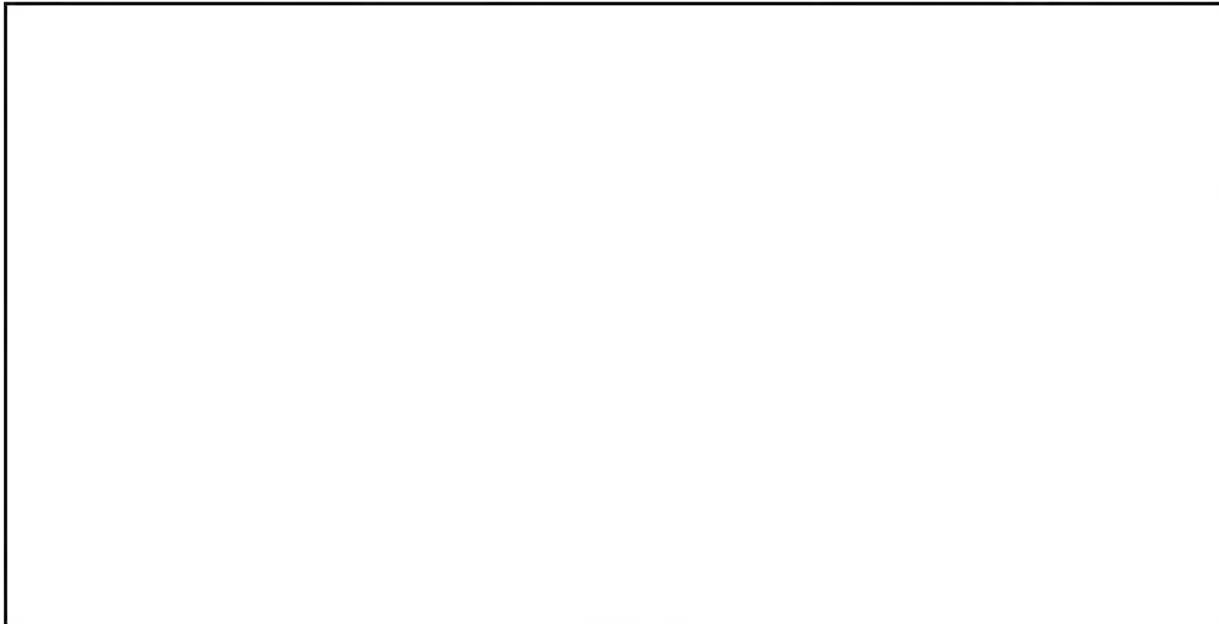
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E. "H" Lens Test - Fifteen sorties were flown for operational checkout of the new mirror installation and thermal modification.

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F. COMPASS TRIP - One sortie was flown over the poppy field test site at Yuma, Arizona.

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III. PILOT AND AIRCRAFT STATUS (AS OF 31 DECEMBER 1973)

A. Detachment "G" (Edwards AFB - North Base)

Aircraft

2 U-2R

Pilots



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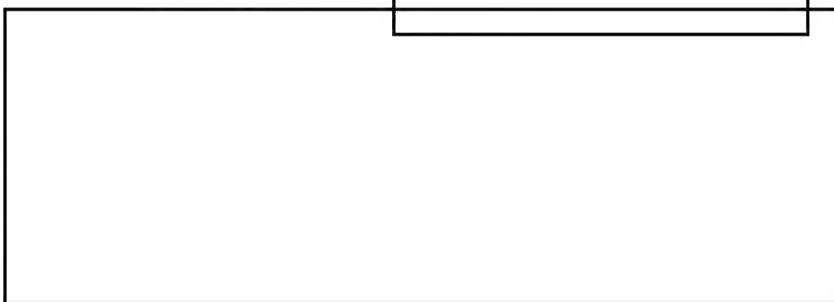
B. Detachment "H"

Aircraft

Pilots

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Section 2

IDEALIST

DEVELOPMENT SUMMARY AND PROGRESS

(1 October 1973 - 31 December 1973)

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I. AIRFRAME

U-2R Flight Test and Operational Training Summary

1. IDEALIST Program accomplishments in U-2R aircraft since introduction include 12480.8 hours on 3826 sorties as of 31 December 1973.

2. Flight test and operational data are depicted below:

	1 OCT-31 DEC FLIGHTS	1 OCT-31 DEC TIME
1 - 051	47	144.5
2 - 053	47	167.0
3 - 054	50	245.1
4 - 055	<u>18</u>	<u>60.5</u>
TOTAL	162	617.1

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II. PAYLOAD

A. "H" Camera S/N 003 - Completed in-plant mirror installation and thermal modifications, and was delivered to Detachment "G" for flight testing on 5 November 1973. The double image phenomenon apparent on "H" configuration S/N 002 was also experienced and corrected early in the S/N 003 test program. During the flight test program, a cager mod was also incorporated into the system to eliminate improper "cage commands" during article roll. The flight test program was completed on 7 December 1973 after 15 flights. "H" S/N 003 was shipped to Detachment "H" on 11 December for operational use.

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B. "H" Mirror - S/N 002 was ordered from Actron late in fiscal year 1973, and is being manufactured according to schedule. Contract delivery date for this beryllium mirror is 28 April 1974.

C. "B-3" Cameras - S/N 229 and S/N 230 are available at Detachment "G". However, flight testing has been held in abeyance pending the contractor's evaluation regarding failure of these systems to meet contractual resolution specifications. Preliminary resolution data received from NPIC indicating S/N 229's failure to achieve performance specification has been provided to the contractor.

D. Delta Research Camera - Modifications including installation of a new f/3.5 apochromatic lens and variable slit modifications to the scan heads have progressed on schedule during this quarter. Contractor delivery of this system to Detachment "G" is expected in early January 1974.

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V. AERO MEDICAL AND LIFE SUPPORT ACTIVITIES

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A. Medical Activities

[Redacted]

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3. [Redacted] is leaving OSA after 4 1/2 years of dedicated duty. During this period he has aggressively participated in developing new life support equipment for OSA and the USAF. [Redacted] is an outstanding officer and will be sorely missed.

B. Life Support Activities

1. Prototype Helmet S1010 Pilot Protective Assembly - Comments from aircrew members who have flown the prototype units have been generally favorable. In order to provide more flexibility in testing, however, an adapter is being fabricated which will permit the helmets to be worn with any standard S1010 coverall. Testing will continue during the next quarter.

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2. Automatic Seat Kit - The Calspan terrain radar sensing device feasibility study has been completed and the final report was submitted to Headquarters. Live, parachute-drop tests were successfully completed on 19 October 1973 in Buffalo, New York. A short film was also forwarded with the final report that clearly illustrates the application of this device to the U-2R survival seat kit.

3. Shark Deterrent Screen - Prototype shark screens have been received from both the David Clark Company and the Rocket Jet Engineering Company. These screens are being forwarded to Dr. C. Scott Johnson of the Naval Undersea Warfare Center, San Diego, California, for evaluation. Dr. Johnson is the original developer of this device and has volunteered to functionally test these new items.

4. Batteries - New solid battery packs are now in the supply system for the ASR-100A survival radio. These packs replace the six penlight batteries currently in use which have been troublesome in both short life span and corrosion characteristics.

5. U-2R Survival Kit Rations - The CD-7 survival ration utilized in the past by both the IDEALIST Program and the Agency programs are no longer available, nor does anyone still use them except OSA. Natick Laboratories in Massachusetts, the source of tube food used for sustenance on high flights in the U-2R, have submitted a sample ration similar to the CD-7 which is presently under evaluation at OTS. If found acceptable, Natick has tentatively agreed to furnish rations in small quantities or as needed.

C. Training Activities

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1. SAFE Meeting - [redacted] Headquarters Survival Superintendent, attended the annual Survival and Flight Equipment Association meeting from 8 - 11 October 1973 in Phoenix, Arizona.

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2. Survival Supply Account - [redacted] was TDY to Detachment "G" the week of 10 December to receive the inventory of the survival supply account in preparation for the departure of their Survival Instructor. Future survival training exercises for IDEALIST pilots will be conducted by the Headquarters Survival Superintendent.

3. Parachute Inventory Review - [redacted] also visited the Lockheed Parachute Facility in Burbank, California, to review the present U-2R RQ-225 parachute inventory.

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